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In re Patent Application of:

WALLACE

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Title: **MOBILE ACTIVITY STATUS TRACKER**

May 29, 2001

SUBMISSION OF FORMAL DRAWINGS

Director of US Patent and Trademark Office
Washington, DC 20231

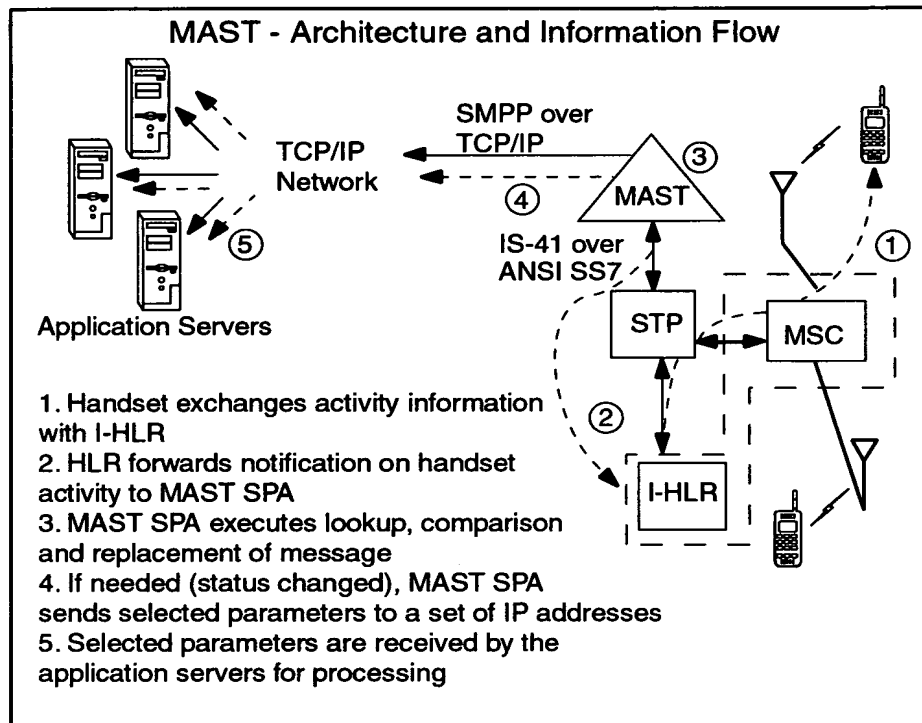
Sir:

Please accept the herewith 14 sheets of formal drawings on A4 size paper of Figures 1 through 11, which are in lieu of the informal drawings filed earlier.

Respectfully submitted,

William H. Bollman
Reg. No. 36,457

Manelli Denison & Selter PLLC
2000 M Street, NW
7TH Floor
Washington, DC 20036
TEL. (202) 261-1020
FAX. (202) 887-0336



MAST Architecture and Information Flow

FIG. 1

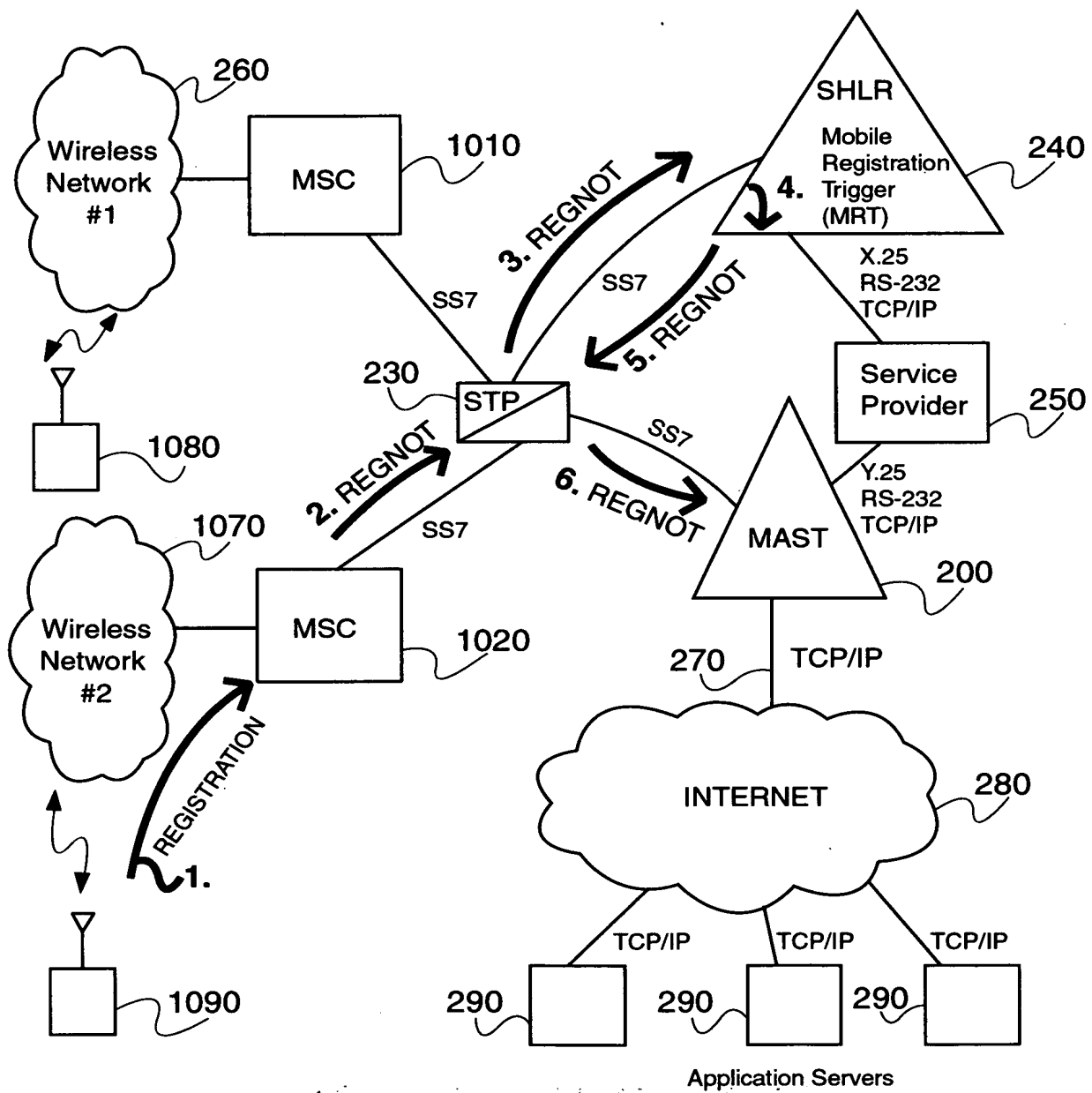


FIG. 2

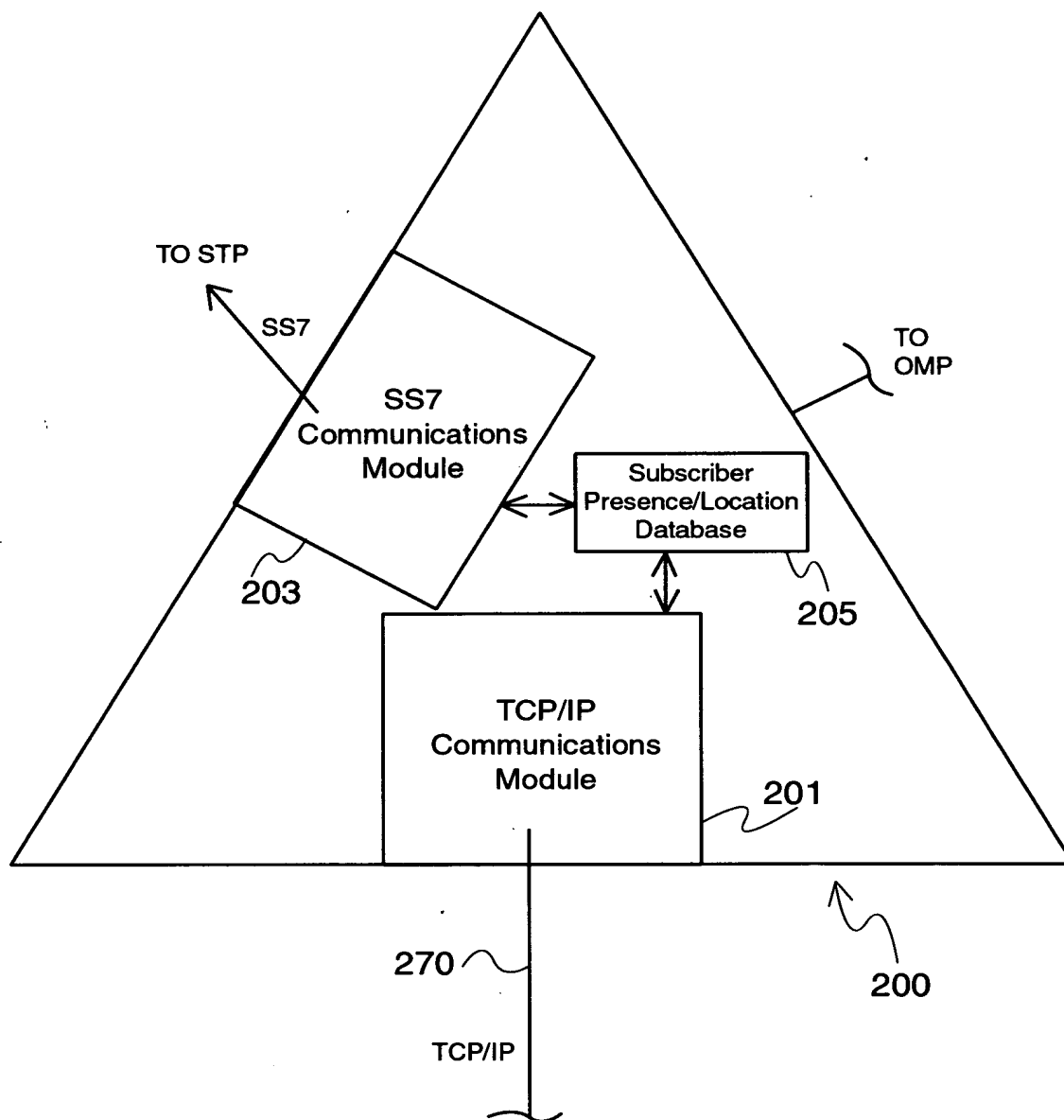


FIG. 2A

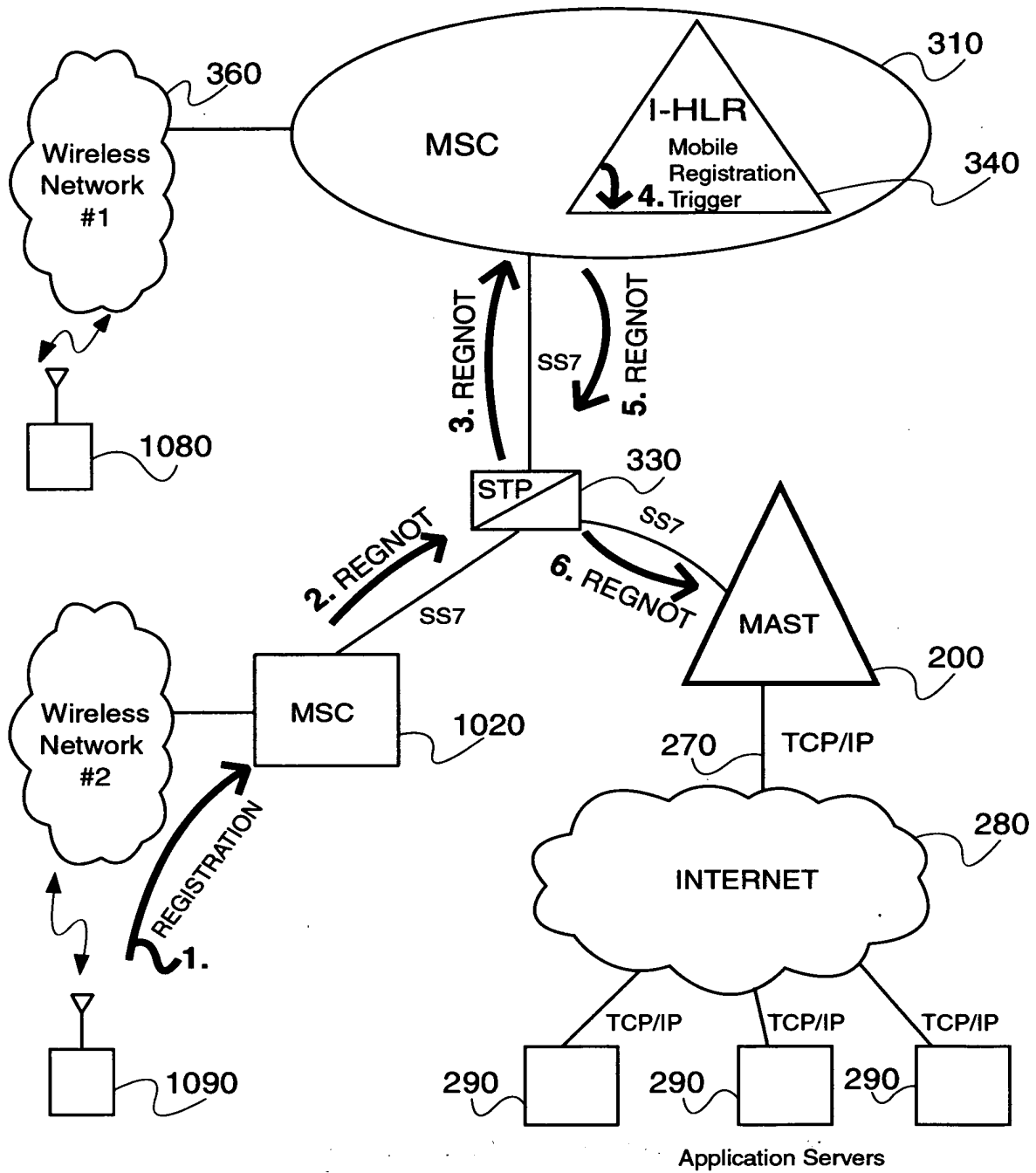


FIG. 3

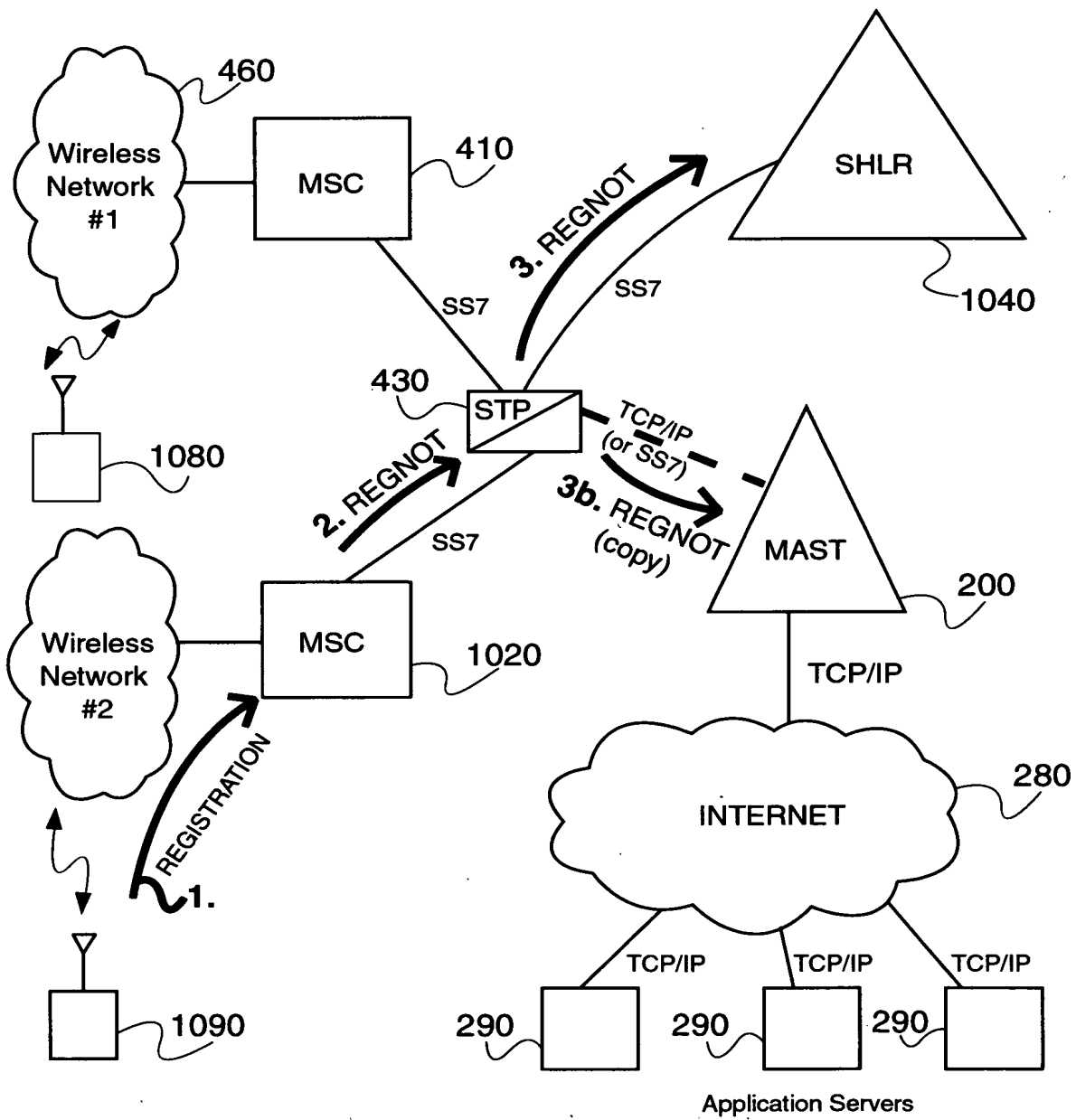


FIG. 4

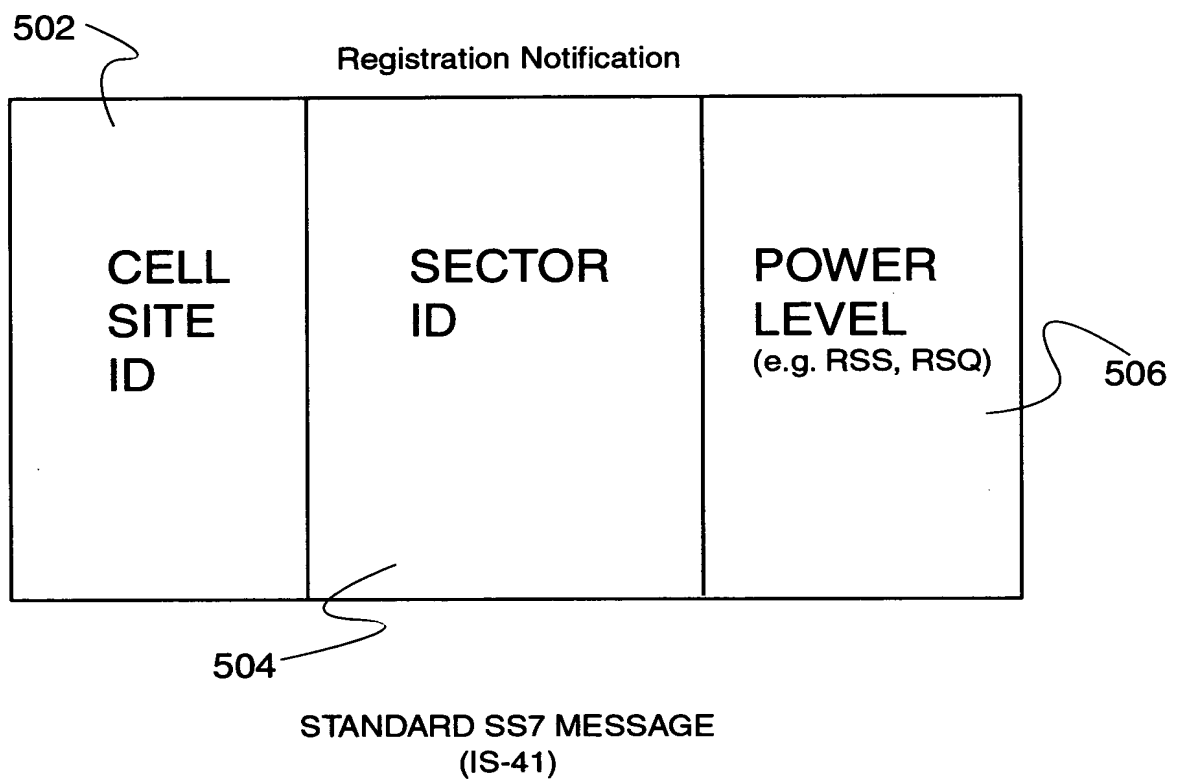


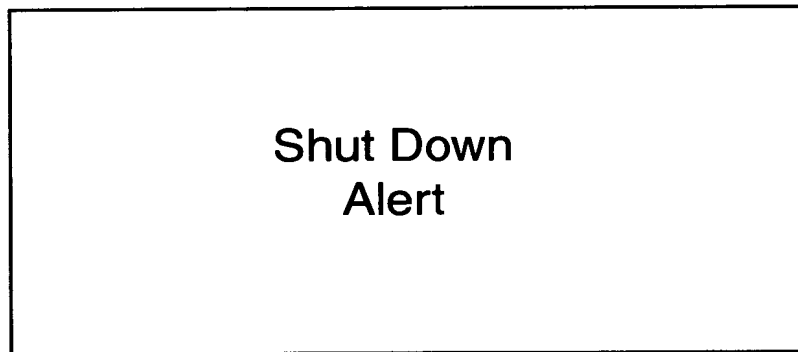
FIG. 5A

| RegistrationNotification INVOKE Parameters | |
|--|------------------|
| Field | Value |
| Identifier | SET [NATIONAL18] |
| Length | variable octets |
| Contents | |
| ElectronicSerialNumber | |
| MobileIdentificationNumber | |
| MSCID (Serving MSC) | |
| QualificationInformationCode | |
| SystemMyTypeCode (Serving MSC or VLR) | |
| AvailabilityType | |
| BorderCellAccess | |
| ControlChannelData | |
| ExtendedMSCID (VLR) | |
| LocationAreaID | |
| PC_SSN (Serving MSC or VLR) | |
| ReceivedSignalQuality | |
| ReportType | |
| SenderIdentificationNumber | |
| SMS_ Address | |
| SMS_ MessageWaitingIndicator | |
| SystemAccessData | |
| SystemAccessType | |
| SystemCapabilities | |
| TerminalType | |
| TransactionCapability | |

RegistrationNotification INVOKE Parameters

FIG. 5B (Prior Art)

Mobile Subscriber Inactive



STANDARD SS7 MESSAGE
(IS-41)

FIG. 6

| | | | |
|-----------------------|----------------------|------------------------------------|-----------------|
| IP Address | Mobile ID | Presence Time/ Date | Location |
|-----------------------|----------------------|------------------------------------|-----------------|

**IP MESSAGE TO APPLICATION SERVER
(e.g., to Chat Server)**

FIG. 7A

| IP Address | Mobile ID | Log | Presence Time/Date | Location |
|---------------|--------------|-----|--------------------|----------|
| | | #1 | | |
| | | #2 | | |
| | | #3 | | |
| | | #4 | | |
| | | #5 | | |
| | | #6 | | |

IP MESSAGE TO APPLICATION SERVER

FIG. 7B

SAMPLE OF TABLE

| MSID | ACTIVE Y/N | LAST DATE/TIME | PARAMETER 1 | PARAMETER 2 | PARAMETER 3 |
|------------------|---------------|-------------------|----------------|----------------|----------------|
| COMPARE FIELD | Y | N | Y | N | Y |
| SEND FIELD | Y | Y | Y | Y | Y |
| 9083067462 | Y | 120314520000 | XX | YY | ZZ |

FIG. 8

SAMPLE DECISION TREE

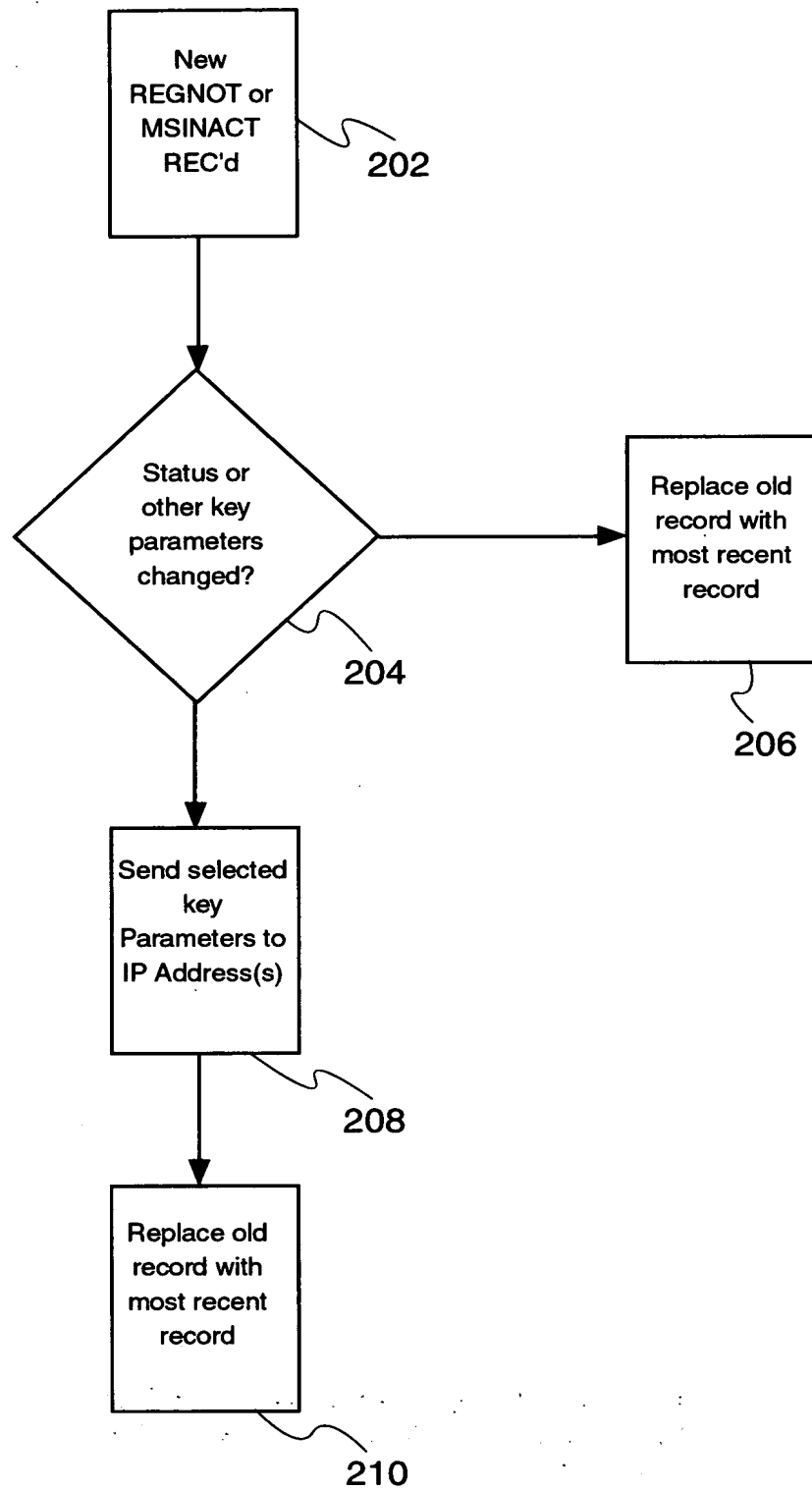


FIG. 9

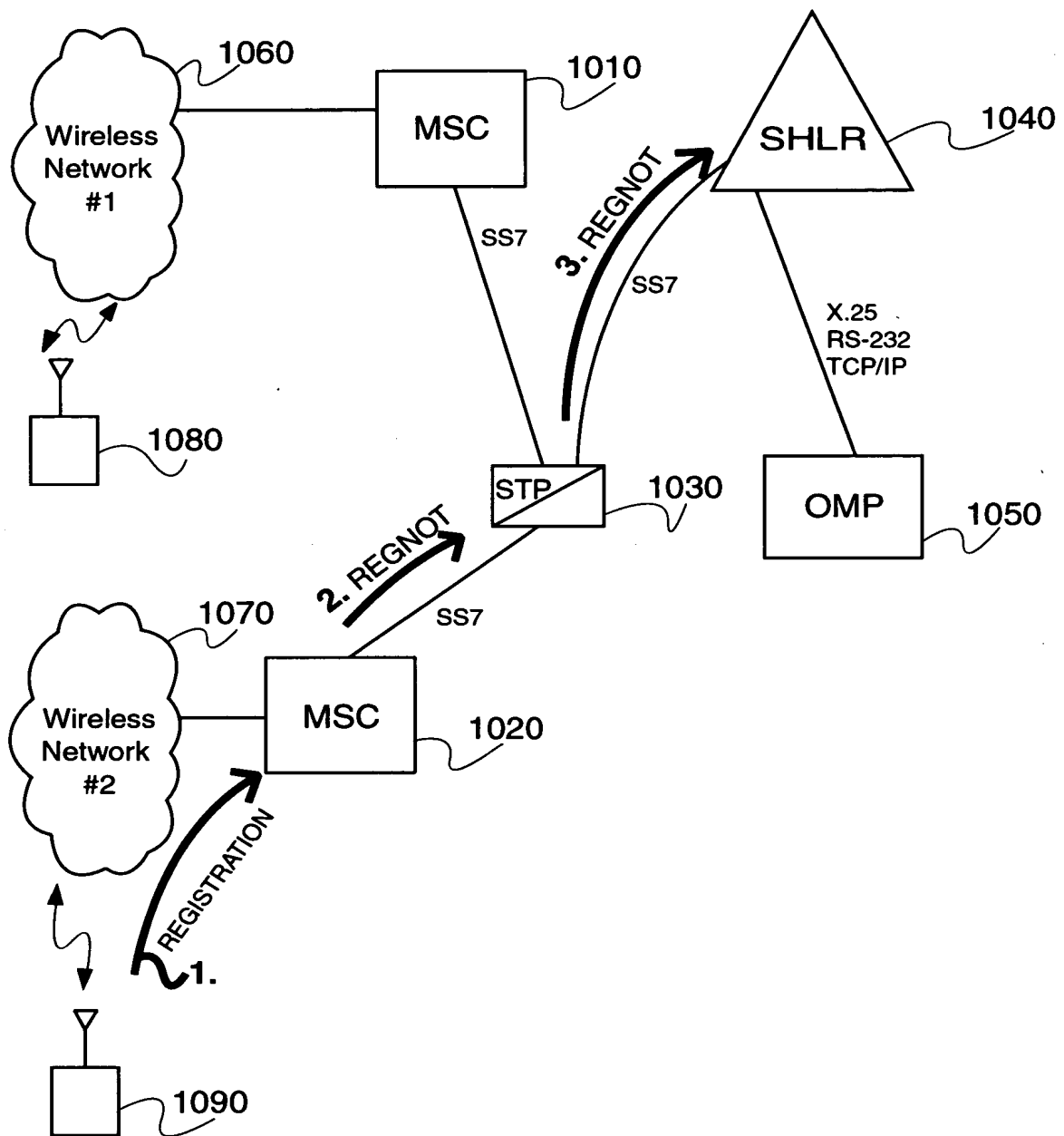


FIG. 10

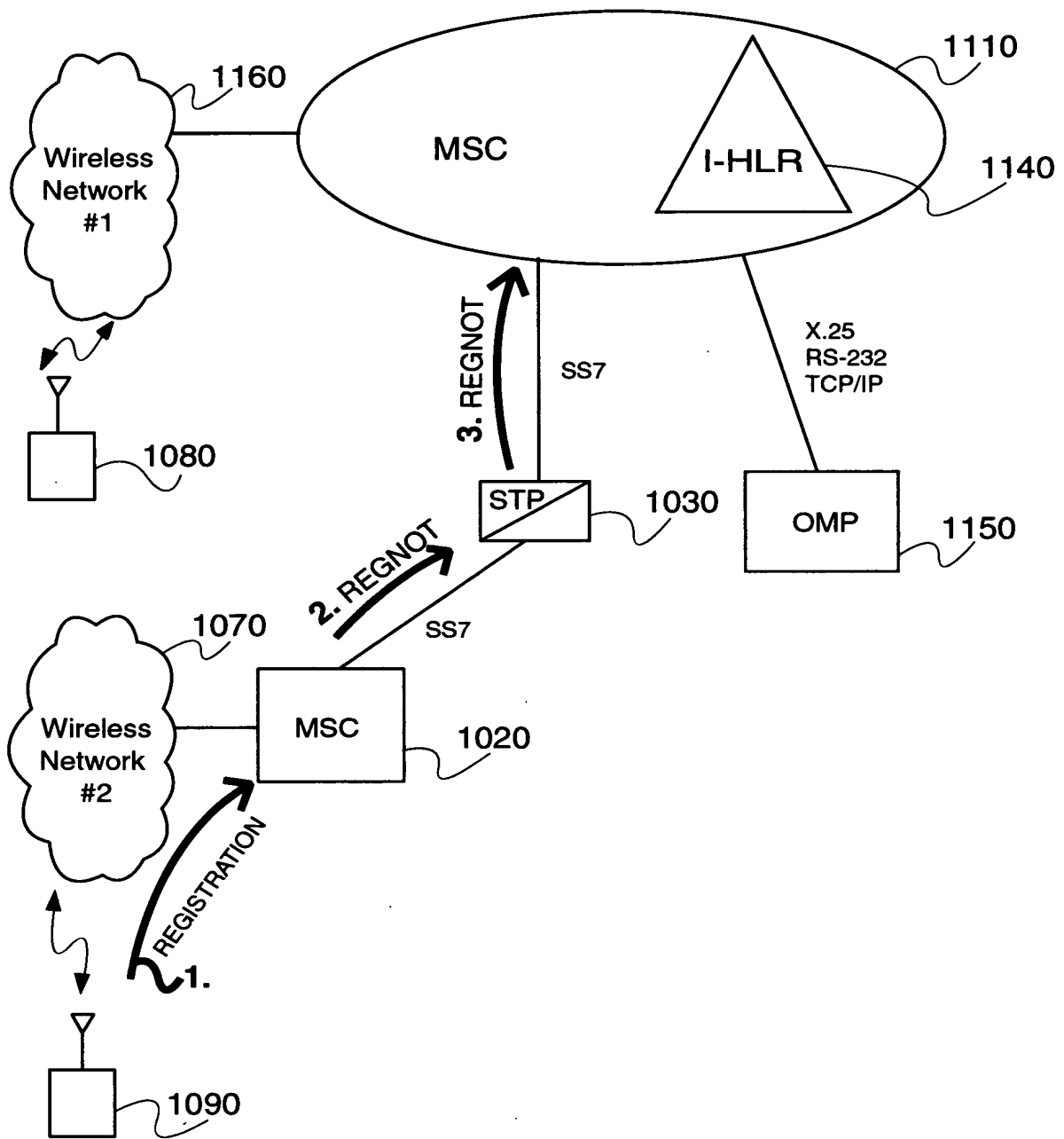


FIG. 11